

Claims

1. A mobile communication terminal, comprising:
an antenna that transmits an electromagnetic wave; and
5 a transmitter that supplies a high-frequency transmission signal to the antenna,

wherein the transmitter includes:

- a power amplifier that amplifies power of the transmission signal, and an output load impedance of the power amplifier being changed on
10 the basis of an impedance of the antenna; and

a phase shifter connected between the power amplifier and the antenna for matching the impedance of the antenna to the output load impedance of the power amplifier.

- 15 2. The mobile communication terminal as set forth in claim 1, wherein the impedance of the antenna in a free space is matched to the output load impedance at the time of low output power of the power amplifier.

3. The mobile communication terminal as set forth in claim 1, wherein
20 when the impedance of the antenna increases, the phase shifter changes the output load impedance of the power amplifier in a direction of impedance at the high output power time.